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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/051,433	01/18/2002	Geoffrey Hamilton White	PAT-1285DIV	5904	
759	90 11/21/2003		EXAMINER		
Raymond Sun Law Offices of Raymond Sun 12420 Woodhall Way			PELLEGRINO, BRIAN E		
			ART UNIT	PAPER NUMBER	
Tustin, CA 92			3738	7	
			DATE MAILED: 11/21/2003	ď	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/051,433	WHITE ET AL.				
		Examiner	Art Unit				
		Brian E Pellegrino	3738				
Period fo	The MAILING DATE of this communication appropriate reply	pears on the cover sheet with	n the correspondence address	;			
THE N - Extensifier to the tenth of the tent	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a rep period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailin d patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONT a, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this commun NDONED (35 U.S.C. § 133).	iication.			
1)⊠	Responsive to communication(s) filed on <u>03</u>	September 2003 .					
2a)⊠	This action is FINAL. 2b) T	nis action is non-final.					
3)							
Dispositi	on of Claims	•					
4)⊠	Claim(s) <u>23-34,36-45,47-57 and 59-67</u> is/are	pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
-	5) Claim(s) is/are allowed.						
· -	6)⊠ Claim(s) <u>23-34,36-45,47-57 and 59-67</u> is/are rejected.						
•	7) Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and/ ion Papers	or election requirement.					
	The specification is objected to by the Examin	er					
, —	The drawing(s) filed on is/are: a) acceptable		ne Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)⊠ The proposed drawing correction filed on <u>03 September 2003</u> is: a)⊠ approved b)⊡ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)⊠ The oath or declaration is objected to by the Examiner.							
Priority (under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority document	nts have been received.					
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) 🗌 .	Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C.	§ 119(e) (to a provisional ap	plication).			
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachme	• •						
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s). Informal Patent Application (PTO-15				
U.S. Patent and	Trademark Office						

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DETAILED ACTION

Priority

This application repeats a substantial portion of prior Application No. 09/416994, filed 10/13/99, and adds and claims additional disclosure not presented in the prior application. Since this application names an inventor or inventors named in the prior application, it may constitute a continuation-in-part of the prior application. Should applicant desire to obtain the benefit of the filing date of the prior application, attention is directed to 35 U.S.C. 120 and 37 CFR 1.78.

Oath/Declaration

This application presents a claim for subject matter not originally claimed or embraced in the statement of the invention. Although it is understood that according to MPEP 608.01(I) that original claims (preliminary amendment since submitted with the filing of this application) are treated as to what is supported either in the drawing or written description, these claims were not referred to by the declaration. These claims contain subject matter not found in the written description. A supplemental oath or declaration is required under 37 CFR 1.67. If applicant wishes to have the preliminary amendment be treated as part of the continuing application as filed then a supplemental declaration must properly reference the preliminary amendment along with the surcharge.

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Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: "cells having exactly twelve bends and being non-symmetrical about the longitudinal axis," "twelve bends comprise a spring element," "a central bottom bend," "an internal angle that is less than ninety degrees," "twelve bends define acute apices," and "first longitudinal row of cells and a second adjacent longitudinal row of cells having a different orientation."

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 27,30,38,41,50,53,61,64 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Although the drawings are part of the disclosure there is no written description to describe any angle or apice definitions of the cells. Additionally the figures may show one angle or apice measurement, but clearly there is no support for the large range (0-89°) that Applicants are now claiming. There is no range disclosed in the specification.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 53 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 53 recites the limitation "the twelve bends" in line 8 of the claim. There is insufficient antecedent basis for this limitation in the claim.

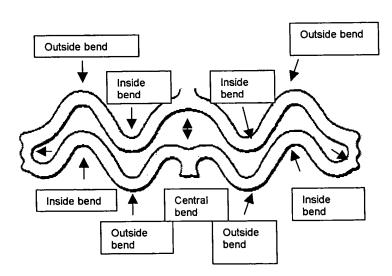
Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 23-26,28,29,31-34,36,37,39,40,42-45,47-49,51,52,54-57,59,60,62,63,65-67 are rejected under 35 U.S.C. 102(e) as being anticipated by Gray et al. (5980553).



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It can be seen as shown by the arrows that the closed cell has exactly twelve bends as illustrated by the arrows. It can also be seen that from the ends to the center are exactly four struts with each strut having two spaced apart bends and a straight portion between the bends. Fig. 1c shows an embodiment that illustrates each cell in a longitudinal row is connected to an adjacent cell in the same row and the different rows have different orientations. It can also be seen that the adjacent rows are inversely symmetrical and are non-symmetrical along the longitudinal axis.

Response to Arguments

Applicant's arguments filed 9/3/03 have been fully considered but they are not persuasive. With respect to the remarks about the specification objections, it must be noted that a written description is critical in interpretation of the claims because the claimed subject matter does not state if the features being claimed describe an unexpanded cell or expanded cell. Thus, the objection is proper and is maintained. See MPEP 608.01(o). Applicant's arguments with respect to claims 23-34,36-45,47-57 and 59-67 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Pellegrino whose telephone number is (703) 306-5899. The examiner can normally be reached on Monday-Thursday from 8am to 5:30pm. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott, can be reached at (703) 308-2111. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

TC 3700, AU 3738

Brian E Pellegrino

Brian E. Pellegrino

Primary Examiner

Bruce Snow